PULP & PAPER 1985 EDITORIAL INDEX

The 1985 Editorial Index contains complete listings of all feature articles and news stories published in 1985 issues of *Pulp & Paper*. Feature articles are listed by subject, by author, and by company. Feature articles and news stories covering activities outside North America are listed under the name of the country. News stories are listed in the news stories section and also by company. (Note: BG = Buyers Guide, November 15 issue.)

INDEX OF FEATURE SUBJECTS

BLEACHING		Favirment and available
Bleaching chemical consumption, prices (column)	Jul 201	Equipment and supplies Manufacturers and suppliers
Bleaching survey: trends in equipment, chemical use	lun 56	
Chlorination can be optimized with dispersion	,	Market pulp—producers, agents New Product Showcase
	Mar 172 Feb 195	
Chlorine demand, output grow (column)		Pigment register
Inorganic scale deposits can be controlled	Jun 154	Replacing equipment: guide to manufacturers
Ion exchange process cuts bleach plant effluent load	Apr 132	Technical and consulting services
L-P upgrades bleach plant at Somoa, Calif.	Jun 77	Top Product Review
Peroxide demand to rise with mechanical pulp use	Oct 54	FUGUIFFRINA MANUFFRIANCE
Thiosulfate in bleach plants can be cut	Jun 108	ENGINEERING/MAINTENANCE
AUFRAID & LO		Columns
CHEMICALS		Engineer to Engineer:
Columns		Views on personal computers (survey)
Chemical Report:		Designing your career future
TiO ₂ demand rises	Jan 207	Seeking learning opportunities
Chlorine output, demand grow	Feb 195	Is engineering separate from maintenance?
Recycling: suppliers meet individual mill needs	Mar 265	Designing for maintainability vs reliability
Bleaching chemical consumption, prices	Jul 201	Who does maintenance work in mills? (survey)
Crude tall oil supply tight	Aug 43	Special Report
Sulfur prices stable	Sep 43	Engineers: Losing the career game?
Kraft chemicals: more specialties hit market	Nov 43	Student section
Papermaking: customized products popular	Dec 41	Schools stress early career focus
Byproduct recovery cuts effluent at G-P	Oct 155	Humanities courses vs technical fare
Chemical survey: consumption modest at U.S. mills	Oct 81	Miami Univ. ranks high with alumni, employers
Chemical survey: usage up in Canadian industry	Oct 87	Engineer section
Papermaking chemicals: review of types, uses	Apr 86	Career planning programs shape long-term goals
Papermaking pigments: annual survey	May 54	Engineers dislike image, position, pay
Peroxide demand to rise with mechanical pulping	Oct 54	Highest paid engineers in management, marketing
Thiosulfate in bleach plants can be cut	Jun 108	Job hopping helps avoid salary dead end Manager section
COATING/SIZING		Engineers at top come from production, sales
Automated coating kitchen at Boise Cascade, Rumford	May 78	Psychological traits of a good manager
Blade size press coater used in Italian mill	May 141	Veteran engineers review careers, offer advice
Coater comparisons: Short Dwell vs roll applicator	May 58	Consultant section
Coating kitchen controlled by transmitter	Mar 94	Changing roles of engineers on consulting side
Coatings, filler pigment survey	May 54	Industry engineers discuss move into consulting
Filter delivers high-quality coatings, improved cleaning	Dec 73	Moving on: how to write a resume
Short Dwell coater heads at Champion, Bucksport	Feb 132	Alloy composition and corrosion resistance
Survey finds use of cornstarch changing	Dec 83	Bearing selection guidelines for conveyor applications
Survey identifies coating mill trends	Dec 102	Belting: guide to manufacturers
TiO ₂ demand on rise (column)	Jan 207	Boiler deaerator inspections keep operations safe
Two-sided coaters vs size presses in Scandinavia	May 120	Bushings: guide to manufacturers
		Couplings: guide to manufacturers
DIRECTORIES/LISTINGS		Continuous up-flow filters improve water treatment

Chemicals: names of major suppliers

BG 225 BG 199 BG 23 BG 42 BG 15

BG 175 BG 33

Jan 163 Feb 161 Mar 209

Apr 197 Jun 181

Aug 149 Sep 54 Sep 56 Sep 59

Sep 61

Sep 94 Sep 86

Sep 81 Sep 97

Sep 111 Sep 114

Sep 107

Sep 127

Sep 123 Sep 130 Dec 104

> Dec 56 BG 15

Aug 111 BG 15 BG 15 Mar 178

Apr 108

BG 143 Crane design is key aspect of paper machine rebuild

Cylinder facing wire: guide to manufacturers Grout failure can cause paper machine misalignment	BG 15 Oct 108	Japan does export paper Are engineers getting a raw deal?	Aug
High-pressure steam line thermal expansion Hydraulic drives suited for woodyard, pulp mill	Dec 86 Apr 152	Wastepaper not garbage to recyclers Champion International's strategic moves	Oct
Modern mills designed, built for lower costs	Mar 176	Industry Comment:	1404
Natural gas price deregulation changes transmissions	Jul 100	Road to economic recovery	Jan 2
Team approach to mill upgrades advocated	Nov 83	Tax proposals threaten paper companies	Feb 2
Ultrasonic detector reveals flaws, leaks online	Jul 120	Canada must act to save wood supply	Mar 2
Valve selection process reduces maintenance problems		Canada's paper industry at peak	Apr 2
Variable-speed a.c. drives replace d.c. drives	Jun 64	Swedish forest industry restructured	May 2
NVIRONMENTAL CONTROL/AIR, WATER QUALITY		Canadian softwood import control problems Stability, predictability in gas pipeline rates	Jun 2 Jul 2
Anaerobic pretreatment ups waste treatment output	Apr 66	New tax laws export jobs, not products	Aug 1
Anaerobic wastewater treatment is economical	May 122	Hydroelectric licensing	Sep 3
Cylinder facing wire: guide to manufacturers	BG 15	Merger/takeover mania rapped by union	Oct 2
PA regulations on storm water, hazardous chemicals	Oct 106	Lumber battlefield: Canadian view	Nov 2
on exchange cuts bleach plant effluent load	Apr 132	Takeovers detrimental to industry's health	Dec 1
Aushroom cultivation on pulp mill sludge is possible	Jul 140	Labor/Management:	E-L
legulations retard paper additive development ludge recycled into valuable fertilizer	Apr 113 Apr 130	Downward spiral in labor settlements Analysis of pay vs performance	Feb Apr
ludge thickening system produces solids to 50%	Nov 138	Evolution of the American union	Jun
Vet oxidation sludge incineration system at Midtec	Jan 94	Human resource management in transition	Aug
,		Workers' lot improving without unions	Oct
XPANSION/MODERNIZATION		Paper industry labor review for 1985	Dec
amvac starts up metallized paper plant	Oct 102	Washington Viewpoint:	
anfor upgrades market pulp line at Howe Sound Pulp	Oct 133	Tax plan—analysis of effects	Jan
ascades converts Breakeyville to deinked pulp	Aug 114	Special Reports Outlook 84:	
hesapeake's multi-ply linerboard machine lammermill's mill is energy independent	Apr 104 Jun 127	U.S.	
ammermill rebuilds, expands at Lock Haven	Oct 57	Boxboard holds steady	Jan
fidtec's rebuilt machine (Kimberly, Wis.) runs faster	Mar 169	Coated paper operations strong	Jan
fondi starts up world's largest greenfield mill	Aug 91	Continuation of recovery predicted	Jan
fondi's chairman discusses strategy for new mill	Aug 96	Containerboard market tight	Jan
epap building Canada's first LWC mill	Oct 128	Uncoated free-sheet performance spotty	Jan
APPI completes expansion in South Africa	Sep 169	Wastepaper reaches plateau	Jan
cott doubles tissue capacity at New Westminster	Jul 96	Canada	Y
INISHING/CONVERTING		Forecast bright for 1985 Labor demands moderate, negotiations quiet	Jan Jan
utomated roll finishing key to Tampella's quality	Oct 152	Market pulp oversupply causes price drop	Jan
ar coding systems offer benefits for inventory	Jun 79	Newsprint recovery on way	Jan
Composite can growth aided by innovations	Oct 110	Uncoated groundwood production up	Jan
lammermill installs new sheeter, wrapping line	Oct 57	Capital spending survey for U.S., Canada	Jan :
ocal area networks up finishing room efficiency	Jul 78	World Review:	
detallized paper expands with Camvac startup	Oct 102	1984: U.S. led world pulp and paper producers	Aug
fodern paper warehouse has latest equipment enior-size sheeters are still viable today	Oct 125 Oct 60	Market pulp demand to slow following glut	Aug
upercalender control: review of current strategies	Jun 89	Mondi's chairman Donner explains strategy Mondi's new greenfield mill is world's largest	Aug
upercalender control with computers expands	Oct 158	Top 27 producing countries	Aug
APPI Finishing/Converting Conference highlights	Feb 118	Africa	Aug
Vinder-related defects analyzed, evaluated	Feb 102	Asia/Australia	Aug
		Europe	Aug
ANAGEMENT		Latin America	Aug
olumns		North America	Aug
usiness Outlook:	Man 45	World industry at a glance	Aug
Shrinking kraft paper industry Beneficial tax proposals	Mar 45 May 41	Top Management Interview Series Champion executive team discusses merger, plans	Nov :
Whither free trade with Japan?	Jul 43	GNN's chairman examines dollar's impact on U.S.	Sep :
Tax reform threatens paper industry	Sep 41	IP's CEO stresses strength, safety, quality	Apr
Pulp market to have real upturn in 1987	Nov 41	ITT Rayonier's CEO on specialty pulp markets	Aug :
areer Development:		Mead's Mason and Correll analyze coated market	Feb
Meetings improve communications	Jan 153	Mondi's chairman explains Richards Bay strategy	Aug
Attitude surveys	Feb 151	UPIU's Glenn discusses current union goals	May :
Office conflicts Untangling technical meetings	Mar 199 Apr 177	API Paper Week: demand to grow in 1985 API survey shows capacity additions on rise	May
More on meetings	Apr 177 May 157	Budworm forest damage slowed, not halted	Jan :
When it is time for a job change	Jun 171	Composite can growth aided by innovations	Oct :
Internal, external career moves	Jul 153	CPPA technical meeting has 35 sessions	Apr
Changing career courses, Part II	Aug 137	Digester Dash runners raise scholarship money	Feb :
Career changes, Part III	Sep 229	Engineers salary survey	Mar :
Corporate politics	Oct 175	Europe's wastepaper demand not promising for U.S.	Nov :
Breaking the "snowed under" cycle	Nov 157	Flexible labor contract ups efficiency at CZ	Jun
Managing the project nobody wants from the Editors:	Dec 131	Japanese quality improvement methods at Federal	Jan :
Paper school curricula problems	Jan 7	Linerboard expansions: rebuild vs greenfield	Sep :
Millwide automation not yet reality	Feb 7	Natural gas price deregulation has many benefits Paper Chase raises \$1,600	Nov
Pulp prices come full circle	Mar 7	Personnel-related costs are down (survey)	Jul
Coated free sheet-numbers can be deceptive	Apr 7	SP&PSA stresses individual approach to safety	Jul
Open season for paper company takeovers	May 7	Safety training key in "Right to Know" rule	Jun 1
Strong dollar hurts paper industry	Jun 7	Salary survey finds median income up 4%	Dec
Linerboard market—what went wrong?	Jul 7	Unbleached kraft markets tighten as capacity slows	Mar :

MEETINGS/CONFERENCES		Cleaner system analysis done onsite with computers	Jun 114
CPPA technical meeting has 35 sessions	Apr 90	Coating kitchen automated at Boise Cascade, Rumford	May 78
MPC spotlights new technology, first supplier exhibit	Oct 130	Coating kitchen with transmitters	Mar 94
SP&PSA meeting: individual is key to safe conditions	Jul 134	Digester control system at Lincoln Pulp & Paper	Aug 74
TAPPI Finishing/Converting Conference	Feb 116	Digester control with microprocessor at Weyco mill	Oct 62
TAPPI Papermakers Conference	Jul 118	Fiber length analyzer uses optical method	Nov 69
Univ. of Maine stresses improved writing skills	Sep 210		May 134
PAPERMAKING/BOARDMAKING		Information gathering system provides vital data	Apr 84
Grade Profile		Integrated data and control systems needed	May 74
Linerboard	Jan 13	Japanese control methods help identify mill problems	Jan 132
Tissue	Feb 13	Leaf River uses three-tier hierarchical control Local area network improves finishing room efficiency	Sep 140 Jul 78
Coated free sheet	Mar 13	Machine control centers: 25 years of innovation	Apr 57
Uncoated printing/writing free sheet	Apr 13	Magnetic flowmeter for many pipe sizes	Dec 99
Coated groundwood paper	May 13	Millwide automation: more theory than reality?	Feb 55
Corrugating medium	Jun 13	Recovery boiler automated at Alabama River	Apr 81
Recycled paperboard	Jul 13	Self-tuning PID controller cuts pH variations	Jun 94
Bleached paperboard	Aug 13	Supercalender control: review of current systems	Jun 89
Uncoated groundwood paper	Sep 13	Supercalender control with computers expanding	Oct 158
Paper-grade chemical market pulp	Oct 13	Woodchip classification, weighing at Longview Fibre	Mar 92
Unbleached kraft paper	Nov 13		
Newsprint	Dec 13	PULPING	
Bacteria is easily controlled in food board	Nov 119	Chemical	NI 00
Continuous felt washing cuts machine downtime	Apr 136	Batch pulping advances up efficiency dramatically	Nov 90
Cylinder facing wire: guide to manufacturers	BG 15	Batch pulping: new developments stir interest	Nov 86
Dryer fabric conditioning key to performance Dryer fabrics designed for maximum permeability	Apr 157 Nov 142	Chip thickness screening at Westar	Aug 126
Dryer felt repairs can be done with simple techniques	Oct 161	Cross-recovery system successful at Great Lakes Digester control system at Lincoln Pulp & Paper mill	Nov 132 Aug 74
Dryer improvements lower steam use, sheet breaks	Feb 134	Filter washer with compaction baffle cuts costs	Nov 65
Felt guiding principles—simple changes up performance		Green liquor clarification improved with polymers	Sep 212
Felt installation techniques lengthen clothing life	May 62	Hydraulic drives for woodyard, pulp mill	Apr 152
Impeller design key to stock agitator efficiency	Sep 156	Kiln output improves with inexpensive upgrades	Feb 118
Machine control centers: 25 years of innovation	Apr 57	Liquor gun plugging eliminated with grinder unit	Nov 98
Multi-ply linerboard: Chesapeake first in U.S.	Apr 104	Peroxide boosts brightness, stability at Consolidated	Nov 147
Paper machines in year 2000: interview with designers	Jan 130	Pressure diffusion washer at Great Lakes	May 100
Papermaking chemicals: review of modern types, uses	Apr 86	Pulp strength can be characterized by single number	Sep 113
Press felts seamed on-machine offer many benefits	Sep 144	Recovery boiler chemical reactions review	Nov 122
Press picking remedies using ASA synthetic sizes	Apr 126	Statistical analysis of chip variations ups pulp quality	Nov 103
Press sections/felts: new designs yield stronger sheet	Jan 78	Weyco mill controls digester with microprocessor	Oct 62
Pulp strength can be characterized by single number	Sep 173	Mechanical	
Older, smaller machine rebuilds require planning	Jan 90	Groundwood mills gain with advanced controls	May 134
Roll covers: guide to manufacturers	BG 15	IMPC Conference focuses on new technology	Oct 130
Rope/rope carrier systems: guide to manufacturers	BG 15	Low-intensity refining provides better pulp control	May 69
Salary, company benefits survey form	Aug 76	Opco pulping process starts up at Q.N.S. Paper, Que.	Jan 96 Nov 72
Semihydraulic headbox similar to rectifier roll Shower oscillator prolongs press felt life	Sep 207 Apr 62	Opco pulping system update at Q.N.S. Paper PGW trials with southern pine at Madison Paper	Sep 190
Spoiler bars improve dryer efficiency	Mar 66	TMP future outlook is bright	May 91
Suction box covers: guide to manufacturers	BG 15	TMP refiner feed improvements boost efficiency	Sep 192
TAPPI Papermaking Conference: drying technology	Jul 118	TMP refining dynamics study	May 115
Top-wire former design successful at Abitibi-Price	Jun 152		,
Twin-wire formers have evolved rapidly since 1958	Apr 155	RAW MATERIALS/PULPWOOD/FORESTRY	
Winder-related defects studied	Feb 102	Budworm damage slowed in 1984 but battle rages	Jan 136
		Chip thickness screening, slicing system at Westar	Aug 114
POWER/STEAM		Disposable chipper knives improve quality	Jul 112
Boiler accessories: guide to manufacturers	BG 15	In-motion car weighing ups wood receiving efficiency	Jul 115
Boiler management system at Austell Box Board	Jul 75	Juvenile wood—increased use requires mill changes	Jul 53
Burners: guide to manufacturers	BG 15	Private land reforestation needs industry commitment	
Coal-handling costs reduced at Bowater Southern	Jun 105	Pulpwood, chip prices stable in 1984, may dip in 1985	Jul 98
Deaerator inspections cut costs at Mosinee	Aug 111	Pulpwood cost outlook good, supplies adequate	Jul 92
Fluidized bed boilers rapidly gaining acceptance	Jun 59	Woodchip classification system aids in quality control	Mar 92
Low-sulfur coal's impact on boiler operations	Jun 111 Jun 148	Wood-handling experts discuss latest technology Wood-handling trends, developments of past decade	Jul 60
Millwide heat recovery cuts steam, natural gas use Turbogenerator for Hammermill's energy needs	Jun 148 Jun 127	Woodlands management as a long-term investment	Jul 136 Jul 132
turbogenerator for nammermin s energy needs	Jun 127	woodlands management as a long-term investment	jui 132
PROCESS AUTOMATION		RECYCLING/STOCK PREPARATION	
Columns		Chemical suppliers focus on individual mills (column)	Feb 265
Automation Update:		Cleaner system analysis done onsite with computer	Jun 114
Central control rooms	May 167	Deinking conversion at Cascades' Breakeyville mill	Aug 114
Millwide implementation management	Jul 161	Extractor washing deinking plant for Publishers	Mar 146
Beyond automating log sheets	Sep 245	Programmable junker key to trash removal	Mar 143
Pyramid is new symbol for millwide control	Nov 146	Recycled fiber supply threatened by rules (survey)	Mar 114
Automated roll finishing system at Tampella mill	Oct 152	Refiner evolution: from open beater to modern disc	Mar 97
Bar-coding systems improve data flow, productivity	Jun 79	Refiner optimization strategies save energy, money	Mar 68
Boiler operations improved with reporting system	Jul 75	Rule 41 changes affect stock preparation requirements	Mar 89
	Sep 137	Stock prep advances up efficiency, lower costs	Mar 120
Bottom-up millwide control is cost-effective		Stock prep pH controlled with PID at Weyco	Jun 94
CD caliper/moisture control improves copier paper	Feb 84		
CD caliper/moisture control improves copier paper CD control an industry trend (survey of installations)	Feb 72	Through-flow cleaners operate at high efficiency	Mar 61
CD caliper/moisture control improves copier paper	Feb 72 Feb 86		

INDEX OF AUTHORS

-A-

Adams, Debra A.—May 7, Jul 57, Oct 7, Nov 100, Nov 113 Allan, David R.—Apr 7, Apr 148, Aug 7 Andrews, Ike M.—Nov 103 Askandar 74 Aurell, Ron—Sep 186

-8-

Baird, James D.-Dec 99 Bajorek, Vic-Dec 52 Barnes, Richard—Nov 103 Barnet, Adrian J.—Nov 72 Bartocci, Stephen I.-Nov 147 Barton, Robert W.-Jun 108 Basile, Frank C.—Mar 68 Baskerville, G.L.—Mar 280 Baumann, T.W.-Aug 111 Beckow, Steve-Oct 133 Bell. Norman E.—Apr 157 Bendt, H.T.-Nov 119 Bhasin, Roberta—Jan 153, Feb 151, Mar 199, Apr 177, May 157, Jun 171, Jul 153, Aug 137, Sep 130, Sep 229, Oct 175, Nov 157, Dec 131 Blackman, Ted—Jul 98, Oct 106 Blackwell, Brian—Nov 122 Bliss, Terry-Mar 61 Bradley, Wallace H .- Jul 75 Breaux, J.A.-Nov 83 Breslin, Joanne-Apr 86 Briscoe, Brian-Aug 126 Brown, Jeff—Sep 140 Buffington, Perry W.—Sep 114 Burchardt, Orjan-Mar 176 Buzzard, William-Oct 62

Caldwell, Peter—Mar 120
Carlson, Paul E.—Apr 113
Chalmers, G.J.—Feb 134
Cianci, William—Jun 79
Clemons, R.N.—Aug 74
Clephane, Thomas P.—Feb 208
Clifford, Mike—Apr 152
Coleman, Matt—Jan 163, Feb 161, Mar 209, Apr 130, Apr 197, Jun 127, Jun 148, Jun 181, Jul 60, Aug 149, Sep 86, Sep 97, Sep 127, Oct 57, Oct 102, Oct 155
Constanting I.—May 115

Constantino, J.—May 115 Crocco, Bruce—Jul 115 Cummings, Robyn—Sep 137

D

Davis, Michael J.—Mar 89
Defoe, R.J.—May 69
Del Bueno, Richard P.—Jun 59
DeVries, Tom C.—Sep 156
Dodson, Michael G.—Oct 55
Dool, Gary—Jul 78
Ducey, Michael J.—Feb 86, Feb 88, Feb 132, Mar 114, Mar 265, May 54, May 78, Jun 56, Jun 94, Jul 96, Jul 112, Aug 114, Sep 59, Sep 111, Sep 210, Oct 81, Oct 87, Nov 98, Dec 41, Dec 83
Dunn, Russell—Jun 105
Duval, Albert F.—Sep 41
DuVall, Steven—Mar 92

-E-

Eaton, Richard R.—Mar 178
Edmonds, Garland T.—Apr 104
Eilander, Mark A.—Mar 94
Ernerfeldt, Bertil—Nov 90
Espe, Carl—Jan 109
Evalahti, Osmo—Sep 207
Evans, John C.W.—Jan 94, Jan 130, Feb
116, Mar 66, Mar 169, Apr 90, May 100,
Sep 144, Oct 128, Nov 138

F

Fadum, Ole-Kristian—Feb 55, May 167, Sep 245, Nov 164 Favre, James F.—Oct 60 Fery, John B.—Jan 222 Fitch, James H. Jr.—Apr 132 Flint, Harry E.—May 62 Fraik, Robert D.—Sep 61 Franzen, Rune G.—May 91 Fredrikkson, B.—May 69 Fremont, J.N.—Oct 108 Frye, Kenneth G.—Feb 102

-G-

Gawley, J.R.—Jul 140 Chosh, Kanai L.—Apr 81 Giangiorgi, Bob—Oct 110 Gignoux, Patrick—May 141 Gillies, N.P.—Jun 134 Glenn, Wayne E.—Oct 240 Goggin, N.J.—May 58 Graham, Sharlene—Dec 102

-H-

Habets, L.H.A.—Apr 66
Hahn, T. Marshall Jr.—Aug 198
Harris, Thomas K.—Mar 178
Hart, Howard—Apr 264
Herrevig, M.T.—May 115
Hitchings, R.G.—Jul 53
Houdlette, G.R.—Jun 154
Hudon, Jim—Apr 62

-1-

Ibrahim, Ahmed A.-June 114

-J-

Jackson, Preston L.—Apr 57

-K-

Kalish, John—Aug 55, Aug 91, Aug 96, Sep 169
Kellison, R.C.—Jul 53
Kien, Julian M.—Feb 43, Apr 45, Jun 43, Aug 41, Oct 43, Dec 39
King, Tracy—Nov 122
Koffinke, Richard A.—Mar 143
Kopec, Ricky R.—Apr 136
Kouk, Robert S.—Oct 55
Knapick, Edward—Sep 212
Knelissen, J.H.—Apr 66
Knowles, R.G.—May 58
Kuni, Stefan—May 120
Kurdin, Joseph A.—Mar 97

-L-

Lanther, Joseph D.—Jul 81 Larsen, Nancy J.—Jan 136 Leotta, John—May 141 Lowe, J.R.—Sep 192 Luciano, William A.—Nov 142

-M-

MacDonald, James R.—Jun 111
MacDonald, Robert N.—Jul 75
Maehling, Kevin—Jun 105
Mantravadi, S.V.—Oct 62
Martin, Fred R.—Jun 77
Matzka, R.A.—Mar 146
McCollister, Mark A.—Jan 90
McInvale, Al—Jul 136
Mies, Willard E.—Jan 117, Mar 7, Mar 150, Jul 7, Aug 108, Sep 151
Montani, Raymond—Sep 212
Morgante, Nino—Oct 125
Mueller, J.C.—Jul 140
Mulvihill, Michael J.—Feb 84
Murphy, John R.—Jul 218
Murphy, Lee—Jul 136

-1-

Nettamom Kari—Sep 137 Norbom, Henning R.—Feb 118 Nowakowski, Tamara—Sep 212

-0-

O'Brian, Hugh—Aug 55 O'Hanlon, Terrence—Jul 120 Osborne, M.J.—Nov 83 Oshinowo, O.—Mar 172

P

Pait, Richard-Apr 81 Palazzolo, S.-Feb 77 Parker, Graham-Mar 176 Patrick, Kenneth L.-Jan 7, Sep 7, Sep 123 Pearson, John-Oct 130 Penttila, Matti-May 120 Pessala, Juha-May 134 Peterson, David J.—Dec 86 Peterson, Thage G.—May 230 Pettersson, Bengt-Nov 90 Piirainen, Raili-Nov 69 Pollitzer, Stephanie—Jan 109 Ponkamo, Jukka—Oct 152 Popovich, Luke-Jan 43 Presley, J. Richard-Oct 55 Pu, C.M.-Mar 172 Puusepp, Jaak-Nov 226

—R-

Rabideau, John—Jun 152 Reeve, D.W.—Mar 172 Rekunen, S.—May 122 Richards, Stephen B.—Jul 100 Richardson, J.E.—May 58 Roberts, J.W.—Nov 132 Robertson, Fred G.—Nov 41 Robinson, D.H.—May 69 Romanski, Eric—Oct 161 Rouleau, Luc—Nov 72 Ryan, Thomas—Mar 45

Salakari, Hannu—Sep 190 Samartini, James P.-Jul 132 Scalfaratto, Robert E.—Apr 126 Shade, Robert A.-Sep 328 Shockett, Barry-lan 207, Feb 195 Shotwell, Scott-Jun 244 Sigler, Andrew C.—Dec 180 Silander, Risto—Nov 86 Smith, D.M-Jun 134 Smith, Elizabeth A.—Jul 134 Smith, Kenneth E.—Jan 132, Feb 7, Feb 72, Feb 98, May 138, Jun 7, Jun 130, Jul 60, Jul 118, Aug 76, Sep 81, Sep 107, Nov 7, Nov 113, Dec 68

Smith, Preston—Dec 73 Smook, Gary—Sep 173 Sollosi, Deborah S .- Mar 118, Sep 56, Sep 94 Spence, Thomas C.-Dec 104

Stiehr, K.A.-Aug 111 St-Onge, Ernest A.-Nov 72 Sutton, Peter-Aug 55

n

DOMTAR INC.

Canada to consider project aid

Project grows at Windsor, Que.

Tait. Derek-Nov 65 Thielbar, Robert B.—Jun 89 Thorp, B.A.-Apr 155 Tomsky, Ellis H.-Dec 56 Trueb, Richard L.-Sep 186

Vanhatalo, Antti-Apr 108 Verhoeven, Jack-Jun 152

Walhstrom, P.B.-Jan 78 Wallace, Barclay W.—Oct 158 Wallace, Barclay W.—Oct 158 Wallinger, R. Scott—Jul 72 Walters, W.Z.—Aug 74 Wasko, Curtis P.—Jun 64 Westergard, Sivert-May 120 Whitley, Donald-Nov 147 Wilson, Joseph Jr.-Apr 136

EX OF COMPA

This index includes both news items and feature stories. News items pertaining to acquisitions/mergers/buyouts, labor, and litigation are not included in this listing but may be found in the News Stories By Category section.

ABITIBI-PRICE INC.	
Delays common stock offering	Jul 35
Gets license to make WSOP	Jul 35
Sets program for SC production	Apr 37
Top-wire former successful	Jun 152
ALABAMA RIVER PULP CO.	
Makes 2-millionth ton	Apr 33
Recovery boiler automated	Apr 81
ALLIED PAPER INC.	
Filters up water treatment	Mar 178
APPLETON PAPERS INC.	
To improve carbonless basestock	Aug 33
AUSTELL BOX BOARD CORP.	
Data systems aid reporting	[m] 75
Data systems and reporting	Jul 75
—B—	
BADGER PAPER MILLS ING.	
Plans Wisconsin mill upgrade	Jun 31
BOISE CASCADE CORP.	
Closes Minnesota board plant	Jan 37
Coating kitchen at Rumford mill	May 78
Completes carbonless rebuild	Aug 33
DeRidder to up liner capacity	Oct 21
Gas-fired radiation drying	Feb 88
Installs transmitter	Mar 94
Mulls raising coated capacity	Mar 33
Wallula's white paper upgrade	Sep 23
BOWATER SOUTHERN PAPER CO.	
Coal handling cuts costs	Jun 105
Engineers favor team approach	Nov 83
BRITISH COLUMBIA FOREST PRODU	CTS LTD.
Crofton mill installs boiler	Nov 29
Vetoes LWC upgrade at Blandin	Feb 31
BRUNSWICK PULP & PAPER CO.	
Georgia mill upgrade under way	Jan 29
-c-	
ALLENSA INTERNATIONAL	
CAMVAC INTERNATIONAL	

CANADIAN FOREST PRODUCTS LT	D.	Receives loan for Windsor	May 25	
Port Mellon upgrades quality	Oct 133	To convert Dolbeau mill to TMP	Aug 29	
CASCADES INC.		DONOHUE INC.		
Favored for Port Cartier mill	Dec 27	Government denies aid	Nov 23	
Starts up deinked pulp mill	Aug 114	Slates new machine at Clermont	Oct 21	
CHAMPION INTERNATIONAL CORP		DUNN PAPER CO.		
Division gets coater heads	Feb 132	Port Huron expands C1S capacity	Jan 29	
Gas leak at Canton mill	Oct 35			
Machine planned for Skowhegar	Apr 23	_F_		
Pensacola mill gets oxygen lines	Nov 25			
Plans carton machine upgrades	Nov 31	FEDERAL PAPER BOARD CO.		
Poised to be top producer	Nov 113	Riegelwood's control methods	Jan 132	
Quinnesec ahead of schedule	May 27	Short Dwell trial at Riegelwood	May 58	
Quinnesec gets new machine	Jan 29	To up bleached board output	Mar 31	
Starts up Bucksport boiler	Sep 25			
To convert Stress Kraft machine	lul 23	FORT HOWARD PAPER CO.		
		Georgia favored for tissue mill	May 25	
CHESAPEAKE CORP.		Georgia wins \$1-billion mill	Aug 23	
Linerboard machine a U.S. first	Apr 104			
Plans switch to corrugating	Feb 31	FSC PAPER CORP.	0	
CIP INC.		Recycled newsprint mill for sale	Oct 25	
Newsprint planned for Gatineau	Aug 25	-6-		
SC expansion for Trois Rivières				
*		GEORGIA-PACIFIC CORP.		
CONSOLIDATED-BATHURST INC.		Bellingham cuts effluent	Oct 155	
Installs TMP mill at Quebec	Nov 23	Export pulp price hike	Jun 35	
To market bleached CTMP	Jun 29	May buy diaper producer	Oct 29	
		Mill cuts steam consumption	Jun 148	
CONSOLIDATED PAPERS INC.		Monticello upgrade for fe'l	Aug 27	
Completes kraft pulp expansion	Oct 21	Starts up Crossett machine	Aug 27	
Recycling sludge into fertilizer	Apr 130	Tissue machine sets record	Aug 31	
Restructuring wins approval	Jul 35	Triples OSB output at Grenada	Sep 33	
CONTAINER CORP. OF AMERICA		GRAYS HARBOR PAPER CO.		
Texas carton plant to fold	Jan 29	CD control ups paper quality	Feb 84	
CRESTBROOK FOREST INDUSTRIES	LTD.	GREAT LAKES FOREST PRODUCTS LTD.		
Okays kraft expansion	Jan 25	Diffusion washer cuts effluent	May 100	
Plays host to wild turkeys	Aug 37	Washington mill planned	Jan 25	
CROWN ZELLERBACH CORP.		GREAT NORTHERN NEKOOSA CORP.		
Flexible labor contract works	lun 130	Chairman discusses markets	Sep 151	
The state of the s	,	Maine okays hydroelectric dam	Nov 29	
		Mains unerade at \$125 million	Man 20	

Apr 23

Mar 33

Mar 29

Apr 25

Maine upgrade at \$125 million

Embarks on Demopolis upgrade

GULF STATES PAPER CORP.

H	1	MAKIN PULP & PAPER LTD.	1	-0-	
		Alberta mill plans progressing	Jan 27		
AMMERMILL PAPER CO.		Greenfield mill construction	Nov 25	QUEBECOR INC.	
Lock Haven ups finishing output	Oct 57	Publication paper project moved	Aug 29	Plans newsprint mill	Nov 2
Lock Haven's energy needs	Jun 127	MANUAL F PARCET BRADUATO AGO		To build mill in Matane, Que.	Dec 25
		MANVILLE FOREST PRODUCTS COR	Nov 31	QUEBEC NORTH SHORE PAPER CO. L	TD
-1-		Louisiana upgrade complete Starts trust for asbestos victims	Sep 35	CMP: good chemical replacement	
NLAND CONTAINER CORP.		To expand West Monroe capacity	Dec 27	Opco pulping at newsprint mill	Nov 7
Plans startup of California mill	Apr 27	To expand west monroe capacity	1500 27	Opeo parping at newsprint min	1404 //
and startup or democrate man	osp. z.	MEAD CORP.		-s-	
NTERNATIONAL PAPER CO.		Color-imaging process developed	Jan 31		
CEO stresses quality, safety	Apr 148	Executives discuss markets	Feb 98	ST. MARYS PAPER CO.	
Offers workers early retirement	Jul 33	Pulp and paper additions	Oct 23	Moves into groundwood paper	Sep 2
Plans bleached board upgrades	Jul 25	MIDTER BAREN CORD		Postpones SC expansion	Dec 2
Rebuilt free-sheet unit starts up	Aug 29	MIDTEC PAPER CORP.	Mar 169	SAPPI LTD.	
To install free-sheet machine	Jun 31	Rebuilt machine runs faster Wet-oxidation sludge disposal	Jan 94		Sep 16
TT RAYONIER INC.		wet-oxidation studge disposal	Jan 54	Newsprint expansion done	Seb 10
	Aug 108	MIRAMICHI PULP & PAPER INC.		SCOTT PAPER CO.	
n-motion weighing for wood	Jul 115		Oct 128	Finishes Mobile energy plant	Dec 2
May dismantle Port Cartier mill	May 27			Introduces narrower towels	Jun 3
Rayonier not for sale now	Mar 29	MONDI PAPER CO. LTD.		Mulls coated paper market	Mar 3
imberlands go to partnership	Nov 35	Donner discusses Richards Bay	Aug 96	0.00	
		Richards Bay greenfield mill	Aug 91	SCOTT PAPER LTD.	
-J-		MODINES BARES CORP.		B.C. mill doubles tissue capacity	Jul 9
JAMES RIVER CORP.		MOSINEE PAPER CORP.	A 444	EE COUCY INC	
	Con 25	Deaerator inspections for boiler Plans pulp mill modernization	Aug 111 Oct 23	F.F. SOUCY INC. Directory paper trials	Mar 3
Revamps folding carton plants	Sep 35	Sorg to boost toweling output	May 27	Directory paper trials	Mar 3
JEFFERSON SMURFIT CORP.		Soig to boost towering output	May 27	SOUTHWEST FOREST INDUSTRIES I	NC.
Begins linerboard expansion	Nov 23	-N-		To up containerboard output	Mar 2
Plans Middletown board upgrade				To ap comuniciodata output	.,,,,,
		NEENAH PAPER CO.		SPRUCE FALLS POWER & PAPER CO	
-K		Plans expansion at Whiting	Apr 25	Retrofits with top-wire formers	Jul 2
(IMBERLY-CLARK CORP.		NEWTON FALLS PAPER MILL INC.		STONE CONTAINER CORP.	
Dallas wins new headquarters	Apr 35	Starts up off-machine coater	Apr 25	Expands plant in Florence	Jun 3
Diapers gain market share introduces newsprint discount	Aug 35 Dec 35	-0-		Posted \$30/ton kraft paper hike To open corrugated plant	Aug 3
Moves from Wisconsin	Jan 31			10 open corrugated plant	Jun 3
Plane in fatal crash	Oct 39	OWENS-ILLINOIS INC.		_T_	
To expand diaper plant	Aug 35	Adds capacity at Big Island	Jan 25		
				TEMBEC INC.	
-L-		_P_		Proceeds with CTMP financing	Feb 3
AUREL HILL PAPER CO.	1 05	PACKAGING CORP. OF AMERICA	A 05	_U_	
Textile plant converts to tissue	Jan 25	Creates new unit Plans expansion of linerboard	Aug 37 Mar 33	UNION CAMP CORP.	
EAF RIVER FOREST PRODUCTS		rians expansion of interboard	Mar 33	Expands slipsheet plant capacity	Oct 3
	Nov 27	PENTAIR INC.		Starts Franklin mill upgrade	Apr 2
	Sep 190	To build greenfield mill	25	otario i rankini mini apgrado	pr
				H O OVERHILL OO	
	5cp 150	To dama gracinica initi		U.S. GYPSUM CO.	
Hierarchical process control	5cp 150	POPE & TALBOT INC.	-		Feb 3
Hierarchical process control LINCOLN PULP & PAPER CO. INC.	Aug 74	POPE & TALBOT INC. Oregon mill strikes "gold"	Sep 29	Plans to reorganize operations	Feb 3
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control		POPE & TALBOT INC.			Feb 3
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDENMEYR PAPER CORP.	Aug 74	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill	Sep 29	Plans to reorganize operations	Feb 3
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDENMEYR PAPER CORP.		POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill PORT TOWNSEND PAPER CO.	Sep 29 Mar 37	Plans to reorganize operations —W— WAUSAU PAPER MILLS CO.	
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDEHMEYR PAPER CORP. Donates model to Smithsonian	Aug 74	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill	Sep 29	Plans to reorganize operations -W- WAUSAU PAPER MILLS CO. Plans upgrade at Rhinelander	Dec 2
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDENMEYR PAPER CORP. Donates model to Smithsonian LONGVIEW FIBRE CO.	Aug 74 Jul 29	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill PORT TOWNSEND PAPER CO. Proceeds with CTMP financing	Sep 29 Mar 37	Plans to reorganize operations —W— WAUSAU PAPER MILLS CO.	Dec 2
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDENMEYR PAPER CORP. Donates model to Smithsonian LONGVIEW FIBRE CO.	Aug 74	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill PORT TOWNSEND PAPER CO. Proceeds with CTMP financing POTLATCH CORP.	Sep 29 Mar 37 Feb 33	Plans to reorganize operations	Dec 2
LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDENMEYR PAPER CORP. Donates model to Smithsonian LONGVIEW FIBRE CO. Wood classification system	Aug 74 Jul 29	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill PORT TOWNSEND PAPER CO. Proceeds with CTMP financing POTLATCH CORP. Boiler budget cut by \$71 million	Sep 29 Mar 37 Feb 33	Plans to reorganize operations -W- WAUSAU PAPER MILLS CO. Plans upgrade at Rhinelander Sets sulfite pulp expansion WESTAR TIMBER LTD.	Dec 2 Jun 3
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDEHMEYR PAPER CORP. Donates model to Smithsonian LONGYIEW FIBRE CO. Wood classification system LOUISIANA-PACIFIC CORP.	Aug 74 Jul 29 Mar 92	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill PORT TOWNSEND PAPER CO. Proceeds with CTMP financing POTLATCH CORP.	Sep 29 Mar 37 Feb 33	Plans to reorganize operations -W- WAUSAU PAPER MILLS CO. Plans upgrade at Rhinelander Sets sulfite pulp expansion WESTAR TIMBER LTD.	Dec 2 Jun 3
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDENMEYR PAPER CORP. Donates model to Smithsonian LONGVIEW FIBRE CO. Wood classification system LOUISIANA-PACIFIC CORP. Bleach plant upgrade benefits	Aug 74 Jul 29 Mar 92 Jun 77	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill PORT TOWNSEND PAPER CO. Proceeds with CTMP financing POTLATCH CORP. Boiler budget cut by \$71 million	Sep 29 Mar 37 Feb 33	Plans to reorganize operations -W- WAUSAU PAPER MILLS CO. Plans upgrade at Rhinelander Sets sulfite pulp expansion WESTAR TIMBER LTD.	Dec 2 Jun 3 Aug 12
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDENMEYR PAPER CORP. Donates model to Smithsonian LONGVIEW FIBRE CO. Wood classification system LOUISIANA-PACIFIC CORP. Bleach plant upgrade benefits EPA requires Ketchikan upgrade Grinding eliminates plugging	Aug 74 Jul 29 Mar 92 Jun 77	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill PORT TOWNSEND PAPER CO. Proceeds with CTMP financing POTLATCH CORP. Boiler budget cut by \$71 million Infrared for moisture control	Sep 29 Mar 37 Feb 33 Jul 27 Feb 86	Plans to reorganize operations -W- WAUSAU PAPER MILLS CO. Plans upgrade at Rhinelander Sets sulfite pulp expansion WESTAR TIMBER LTD. Chip screening has payback	Dec 2 Jun 3 Aug 12
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDENMEYR PAPER CORP. Donates model to Smithsonian LONGVIEW FIBRE CO. Wood classification system LOUISIANA-PACIFIC CORP. Bleach plant upgrade benefits EPA requires Ketchikan upgrade Grinding eliminates plugging	Aug 74 Jul 29 Mar 92 Jun 77 Mar 39	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill PORT TOWNSEND PAPER CO. Proceeds with CTMP financing POTLATCH CORP. Boiler budget cut by \$71 million Infrared for moisture control PRINCE ALBERT PULP CO. LTD. Considers groundwood machine	Sep 29 Mar 37 Feb 33 Jul 27 Feb 86 Jun 31	Plans to reorganize operations —W— WAUSAU PAPER MILLS CO. Plans upgrade at Rhinelander Sets sulfite pulp expansion WESTAR TIMBER LTD. Chip screening has payback WESTERN PULP LTD. PARTNERSHIF Upgrades at two mills on time	Dec 2 Jun 3 Aug 12
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDENMEYR PAPER CORP. Donates model to Smithsonian LONGVIEW FIBRE CO. Wood classification system LOUISIANA-PACIFIC CORP. Bleach plant upgrade benefits EPA requires Ketchikan upgrade Grinding eliminates plugging Settles Redwood Park issue	Aug 74 Jul 29 Mar 92 Jun 77 Mar 39 Nov 98	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill PORT TOWNSEND PAPER CO. Proceeds with CTMP financing POTLATCH CORP. Boiler budget cut by \$71 million Infrared for moisture control PRINCE ALBERT PULP CO. LTD. Considers groundwood machine PROCTER & GAMBLE PAPER PRODU	Sep 29 Mar 37 Feb 33 Jul 27 Feb 86 Jun 31	Plans to reorganize operations —W— WAUSAU PAPER MILLS CO. Plans upgrade at Rhinelander Sets sulfite pulp expansion WESTAR TIMBER LTD. Chip screening has payback WESTERN PULP LTD. PARTNERSHIF Upgrades at two mills on time WEYERHAEUSER CO.	Dec 2 Jun 3 Aug 12
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDENMEYR PAPER CORP. Donates model to Smithsonian LONGVIEW FIBRE CO. Wood classification system LOUISIANA-PACIFIC CORP. Bleach plant upgrade benefits EPA requires Ketchikan upgrade Grinding eliminates plugging Settles Redwood Park issue	Aug 74 Jul 29 Mar 92 Jun 77 Mar 39 Nov 98	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill PORT TOWNSEND PAPER CO. Proceeds with CTMP financing POTLATCH CORP. Boiler budget cut by \$71 million Infrared for moisture control PRINCE ALBERT PULP CO. LTD. Considers groundwood machine PROCTER & GAMBLE PAPER PRODUCUIS tissue prices 7.8%	Sep 29 Mar 37 Feb 33 Jul 27 Feb 86 Jun 31 JCTS CO. Nov 33	Plans to reorganize operations —W— WAUSAU PAPER MILLS CO. Plans upgrade at Rhinelander Sets sulfite pulp expansion WESTAR TIMBER LTD. Chip screening has payback WESTERN PULP LTD. PARTNERSHIF Upgrades at two mills on time WEYERHAEUSER CO. Completes white paper rebuild	Dec 2 Jun 3 Aug 12 Sep 2
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDEHMEYR PAPER CORP. Donates model to Smithsonian LONGYIEW FIBRE CO. Wood classification system LOUISIANA-PACIFIC CORP. Bleach plant upgrade benefits EPA requires Ketchikan upgrade Grinding eliminates plugging Settles Redwood Park issue —M—	Aug 74 Jul 29 Mar 92 Jun 77 Mar 39 Nov 98	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill PORT TOWNSEND PAPER CO. Proceeds with CTMP financing POTLATCH CORP. Boiler budget cut by \$71 million Infrared for moisture control PRINCE ALBERT PULP CO. LTD. Considers groundwood machine PROCTER & GAMBLE PAPER PRODU	Sep 29 Mar 37 Feb 33 Jul 27 Feb 86 Jun 31	Plans to reorganize operations —W— WAUSAU PAPER MILLS CO. Plans upgrade at Rhinelander Sets sulfite pulp expansion WESTAR TIMBER LTD. Chip screening has payback WESTERN PULP LTD. PARTNERSHIF Upgrades at two mills on time WEYERHAEUSER CO. Completes white paper rebuild Evaluates ozone bleaching	Dec 2 Jun 3 Aug 12 Sep 2 May 2 Oct 2
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDENMEYR PAPER CORP. Donates model to Smithsonian LONGVIEW FIBRE CO. Wood classification system LOUISIANA-PACIFIC CORP. Bleach plant upgrade benefits EPA requires Ketchikan upgrade Grinding eliminates plugging Settles Redwood Park issue —M— MACMILLAN BLOEDEL LTD.	Aug 74 Jul 29 Mar 92 Jun 77 Mar 39 Nov 98 Nov 37	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill PORT TOWNSEND PAPER CO. Proceeds with CTMP financing POTLATCH CORP. Boiler budget cut by \$71 million Infrared for moisture control PRINCE ALBERT PULP CO. LTD. Considers groundwood machine PROCTER & GAMBLE PAPER PRODUCUTS tissue prices 7.8% Slates \$500 million for diapers	Sep 29 Mar 37 Feb 33 Jul 27 Feb 86 Jun 31 JCTS CO. Nov 33	Plans to reorganize operations —W— WAUSAU PAPER MILLS CO. Plans upgrade at Rhinelander Sets sulfite pulp expansion WESTAR TIMBER LTD. Chip screening has payback WESTERN PULP LTD. PARTNERSHIF Upgrades at two mills on time WEYERHAEUSER CO. Completes white paper rebuild	Dec 2 Jun 3 Aug 12 Sep 2 May 2 Oct 2
Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDENMEYR PAPER CORP. Donates model to Smithsonian LONGVIEW FIBRE CO. Wood classification system LOUISIANA-PACIFIC CORP. Bleach plant upgrade benefits EPA requires Ketchikan upgrade Grinding eliminates plugging Settles Redwood Park issue —M— MACMILLAN BLOEDEL LTD.	Aug 74 Jul 29 Mar 92 Jun 77 Mar 39 Nov 98	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill PORT TOWNSEND PAPER CO. Proceeds with CTMP financing POTLATCH CORP. Boiler budget cut by \$71 million Infrared for moisture control PRINCE ALBERT PULP CO. LTD. Considers groundwood machine PROCTER & GAMBLE PAPER PRODUCUTS tissue prices 7.8% Slates \$500 million for diapers PUBLISHERS PAPER CO.	Sep 29 Mar 37 Feb 33 Jul 27 Feb 86 Jun 31 JCTS CO. Nov 33 Mar 29	Plans to reorganize operations —W— WAUSAU PAPER MILLS CO. Plans upgrade at Rhinelander Sets sulfite pulp expansion WESTAR TIMBER LTD. Chip screening has payback WESTERN PULP LTD. PARTNERSHIF Upgrades at two mills on time WEYERHAEUSER CO. Completes white paper rebuild Evaluates ozone bleaching Self-tuning controller for pH	Dec 2 Jun 3 Aug 12 Sep 2 May 2 Oct 2
Employees reject UPIU Hierarchical process control LINCOLN PULP & PAPER CO. INC. Effective alkali control LINDENMEYR PAPER CORP. Donates model to Smithsonian LONGYIEW FIBRE CO. Wood classification system LOUISIANA-PACIFIC CORP. Bleach plant upgrade benefits EPA requires Ketchikan upgrade Grinding eliminates plugging Settles Redwood Park issue ———— MACMILLAN BLOEDEL LTD. Powell River installs TMP unit MADISON PAPER INDUSTRIES	Aug 74 Jul 29 Mar 92 Jun 77 Mar 39 Nov 98 Nov 37	POPE & TALBOT INC. Oregon mill strikes "gold" To upgrade Wisconsin mill PORT TOWNSEND PAPER CO. Proceeds with CTMP financing POTLATCH CORP. Boiler budget cut by \$71 million Infrared for moisture control PRINCE ALBERT PULP CO. LTD. Considers groundwood machine PROCTER & GAMBLE PAPER PRODUCUTS tissue prices 7.8% Slates \$500 million for diapers	Sep 29 Mar 37 Feb 33 Jul 27 Feb 86 Jun 31 JCTS CO. Nov 33	Plans to reorganize operations —W— WAUSAU PAPER MILLS CO. Plans upgrade at Rhinelander Sets sulfite pulp expansion WESTAR TIMBER LTD. Chip screening has payback WESTERN PULP LTD. PARTNERSHIF Upgrades at two mills on time WEYERHAEUSER CO. Completes white paper rebuild Evaluates ozone bleaching	Feb 3 Dec 2 Jun 3 Aug 12 Sep 2 May 2 Oct 2 Jun 9

INDEX OF FOREIGN COUNTRIES

This index includes both feature stories and news items

AUSTRALIA	1	FRANCE		SOUTH AFRICA	
Newsprint mill plans advance	May 37	Aid for French pulp mill	Jun 41	Dissolving pulp exported	Sep 39
		Cascades buys French mill	Aug 39	Mondi kraft pulp mill starts up	Jan 41
AUSTRIA		Cellulose de Strasbourg's CTMP	Mar 43	Nampak, S&S start up machines	Aug 39
Laakkirchen plans machine	Feb 41	MoDo adds free-sheet capacity	Aug 39	SAPPI expansion online	May 37
Leykam plans new machine	Feb 41	MoDo to upgrade mill	Feb 41	SAPPI sells share in Carlton	Dec 37
BELGIUM		GREECE		SPAIN	
KNP to install LWC machine	Feb 41	Troubled paper mills back up	May 37	Papelera Espanola ups newsprint	Oct 41
KNP to install pulp line	Mar 43		-	Scott Paper buys tissue producer	
Papeteries de Belgique's TMP	Apr 43	INDONESIA			,
		Halts support for new projects	Sep 39	SWEDEN	
BRAZIL		P.T. Aspek starts newsprint mill	May 39	Billerud process cuts effluent	Apr 132
Brazilian bank switches policy	Jul 41	Two greenfield mills for '86	Jan 41	Billerud reports two projects	May 39
Considers pulp expansions	Nov 39	******		Billerud studies plans for mills	Jul 41
PISA starts up newsprint mill	Feb 41	ISRAEL		Djupafors uses coater	May 120
Pulp producer "privatized"	May 37	American Israeli plans upgrade	Sep 39	Expanding in linerboard, pulp	Oct 41
Suzano to build CTMP mill	Dec 37	ITALY		Fiskeby to add bleaching	Jun 41
Three paper machines start up	Sep 39	Count halts lession for Falbri	I.u. 44	Fiskeby ups bleaching capacity	Feb 41
CHILE		Court halts leasing for Fabbri	Jun 41	Gruvön renovates digester	Dec 37
Arauco upgrades mill	Oct 41	Ministry approves sale Miliani Paper runs size press	Oct 41 May 141	Hylte plans newsprint upgrade Increases exports to U.S.S.R.	Jan 41
Bids for forestry project rejected	Jul 41	William raper runs size press	May 141	Kornsnäs-Marma mill may close	May 39 May 39
Bids for mill considered	Mar 43	JAPAN		Kornsnäs ups pulp output	Sep 39
Pulp leads forest exports	Nov 39	Contract for Sumatra mill	Jun 41	MoDo hopes to up capacity	Aug 39
and total total experte		Mills expand in coated grades	Sep 39	MoDo plans six mill expansions	
CHINA, PEOPLE'S REP.		Oji plans oxygen bleaching	Mar 43	Munksjö to up tissue output	Mar 43
Boading to build banknote mill	Dec 37	Output of acid-free paper up	Aug 39	NCB pulp project for 1986	May 37
CMP slated for Sahi-Xian	Oct 41	Plans heat-sensitive papers	Jul 41	Nymölla installs coater	Feb 41
		Imports chips, pulp from U.S.S.R	Oct 41	SCA increases stake in Obbola	Dec 37
COLOMBIA				SCA starts up new TMP plant	Mar 43
Publishers argue over mill	Apr 43	KOREA, REP.			
CZECHOSLOVAKIA		Chonju starts up machine	Dec 37	SWITZERLAND	F1-1 44
Upgrade at Severoslovenské	Aug 39	MALAYSIA		Utzenstorf replaces machine	Feb 41
Opgrade at Severosiovenske	Aug 39	Scott invests in mill	Aug 39	TAIWAN	
FED. REP. GERMANY		ocott mvosts in min	ring 55	Chung Hwa installs machine	Apr 43
Albbruck upgrades mill	Apr 43	MEXICO			. sp. vo
E. Holtzmann slates machine	Apr 43	Atenquique ups capacity	Jan 41	TANZANIA	
Feldmühle plans expansions	Feb 41			Mufindi mill schedules test run	May 39
Felix Schoeller orders machine	Sep 39	NETHERLANDS			
Haindl installs LWC machine	Dec 37	KNP, B-T plan venture	Mar 43	THAILAND	
Hakle-Werke plans new machine	Apr 43	Newsprint studied by Parenco	May 37	Siam Kraft orders Japanese mill	Dec 37
		Pretreatment by Roermond	Apr 66		
FINLAND				TURKEY	
Enso-Gutzeit gets new woodroom		NEW ZEALAND		SEKA to modernize mill	Mar 43
Gutzeit adds packaging board	Aug 39	Carter Holt buys forests	Apr 43	HANTER KINGBON	
Gutzeit proposes joint venture	Apr 43	Tasman plans newsprint upgrade		UNITED KINGDOM	
	May 120	Tasman to test oxygen bleach	Jul 41	Deinking planned for Con-Bath	Jun 41
Joutseno adds batch digester	Jan 41	NORWAY		Finnish mill in Wales starts up	Jul 41
Kajaani sulfite mill to be closed	Jun 41		14	Reed restarts machine	Aug 39
Lohjan Paperi converts machine Mills plan more market pulp	May 39 Oct 41	Three newsprint mills join sales	May 39	Reed to rebuild new machine	Jan 41 Sep 39
Ov Kaukas considers U.K. mill	Nov 39	PAKISTAN		Wiggins buys 43% of mill Wiggins takes share in Soporal	Jun 41
Protest shuts down industry	Dec 37	Paper mill okayed at Thatta City	Aug 39	** iggins takes share in Soporal	jun 41
Schauman to expand capacity	37	Shifts plan to printing paper mill		U.S.S.R.	
	May 122	omits plan to printing paper intil	1404 33	Balakhna plans CTMP for mill	Nov 39
United Paper plans machine	Apr 43	SCOTLAND		Syktyvkar adds CTMP plants	Jan 41
United Paper starts machine	May 39	CTMP can be competitive	Nov 39	Syktyvkar to install machines	Mar 43
				, ,	
		SINGAPORE		ZIMBABWE	
		Scott invests in mill	Aug 39	Orders pulp/paper mill study	May 39

NEWS STORIES BY CATEGORY

ACQUISITIONS/MERGERS/BUYOUTS		Milk carton campaign can continue	Nov 31
Abitibi-Price sale to Gulf Canada proposed	Aug 25	Missing kids photos slated for milk cartons	Mar 27
Abitibi-Price to be sold to Gulf Canada	Sep 27	Packoff winner named on East Coast	Jun 31
Blandin files for public stock offering	Oct 23 May 25	Papercraft to go private Smurfit buys Sharick Packaging	Dec 33 Dec 33
California seeks recycled newsprint mill Canadian Forest Products buys Feldmühle's stake	Apr 29	Sonoco agrees to buy Continental Fibre Drum	Apr 39
Champion holders approve St. Regis merger	Jan 23	Weyco buys Tri-Wall Inc.	Dec 33
Champion sells three more units	Jun 23	The says to have the	200 00
Champion to sell folding carton division	May 23	ENERGY	
Champion to sell paperboard mills, carton plants	Jul 31	Scott starts up Mobile energy complex	Dec 27
Champion to sell Tacoma mill, Hennepin Paper	Aug 25	Solar energy used to preheat boiler water	Aug 35
Chesapeake to buy Philip Morris mills for \$214 million	Jun 21	U.S. mills generated 55% of their energy in 1984	May 33
CIP buys remainder of Tahsis	Feb 27 Nov 33	ENVIRONMENT/REGULATION	
Clevepak Corp. sells can, core plants to employees Crown Zellerbach faces Goldsmith bid	Feb 25	Quebec, Nova Scotia won't spray budworm	Apr 41
Crystal Tissue directors okay merger	Feb 27	Shipping standards proposed by DOT opposed	Feb 39
CZ concedes Goldsmith wins battle	Sep 27	ampping summar property of a company	
CZ, Goldsmith call truce, agree to restructure	Jul 29	FOREST RESOURCES/WOOD PRODUCTS	
CZ, Goldsmith still waging battle	Jun 21	Big seven wood product companies hint at cost cuts	Jan 37
CZ has 40% captured by Goldsmith	Aug 23	Canadian lumber exports reconsidered by U.S.	May 35
CZ may sell tissue assets to James River	Dec 23	Jack pine budworm is a spreading pest	Oct 39
CZ resists Goldsmith's \$1-billion buyout	May 23	Lumber issue brings U.SCanada talks, threats	Apr 39
CZ unhappy: Goldsmith buys 8.6% of company Deerfield Specialty Paper employees want to buy mill	Apr 29 Mar 27	NASA takes trees into Earth's orbit Pacific Lumber rejects buyout offer	Oct 23 Nov 35
Diamond mill purchase studied by former managers	Mar 27	Reagan proposes 13.8% forest budget cut	Apr 41
Domtar workers seek purchase of Lebel-Sur-Quevillon	Mar 27	Southern softwood supply to be short in future	Nov 35
Duluth seeks company to build groundwood mill	Jul 29	Wasps put sting on forest pest	Aug 29
Federal Paperboard buys Continental mill	Jan 23	Weyerhaeuser, IP seek woodworker wage rollbacks	Apr 41
Federal to complete Augusta purchase	Apr 29		
G-P sells Lyons Falls, N.Y., mill	Dec 23	INTERNATIONAL TRADE	1
IP buys Durham Mills' recycling plant IP	May 35	EEC, Canada end duty-free newsprint quota dispute	Feb 37
IP seeks holder approval of antitakeover steps	May 23 Jun 37	EEC duty-free newsprint import quota talks resume	Jan 37 Feb 35
MacMillan Bloedel buys two CCA corrugated plants Manville agrees to buy Inland's container plants	Nov 31	EEC fines producers in pulp cartel case Fibreco Export studying CTMP market pulp mill	Sep 25
Marcal Paper Mills acquires Georgia converter	Oct 31	ITC dismisses case against Canadian producers	Sep 33
Mobil to study possible sale of CCA	Apr 29	ITC egg-flat probe likely to be delayed	Apr 39
Olin sells Ecusta Paper for \$125 million	Sep 31	Japan reducing tariffs on some paper, board by 20%	Sep 33
Olin to sell Ecusta Paper to First Boston Corp.	Mar 27	Tariff trade with Japan disappointing	Apr 39
Owens-Illinois seeks buyer for Orange, Texas, mill	Apr 35	U.S. trade gap in paper products: 4.4 million tons	Oct 33
Pan China bids for Morris, American Packaging mills	Oct 25	Lanco	
Philip Morris considers selling industrial division	Feb 27	LABOR California Banashaard strike ands	14 22
Potlatch tries to fend off Belzberg buyout Rauma-Repola Oy to buy 24% of St. Marys mill	Dec 21 Apr 27	California Paperboard strike ends CCA's Brewton, Ala., mill settles	Mar 33 Dec 33
Repap buys Boise mill, breaks ground for LWC facility		CPU faces slow year—except in converting	Apr 33
Stone Container buys Strong-Robinette Bag Co.	Aug 37	CZ's eight-month strike at West Linn will end	Jun 35
Stone to buy Champion units	Nov 21	CZ lays off 450 woodworkers	Oct 39
Temple-Inland to buy insurance firm	Jun 25	CZ strikers at Antioch approve three-year contract	Jan 35
Times Mirror ends talks with Boise on Publishers sale	Apr 29	Domtar receives favorable ruling from Quebec court	Jun 37
Times Mirror seeks buyer for Publishers	Feb 25	Domtar signs three-year pact, ends 11-month strike	Jul 39
Trident forms company from Champion purchases	Sep 31	G-P's Crossett mill up after short walkout	Sep 31
V. Ponte & Sons to buy Whippany mill Willamette turns down Oney Captal's huyout offer	May 35 Jun 25	IP labor pact triggers conversion at Pine Bluff	Feb 29
Willamette turns down Onex Captal's buyout offer	Jun 25	IP workers at Gardiner, Ore., return to work ITT (Port Angeles) imposes massive wage cuts	Jan 35 Feb 37
CAPITAL SPENDING		IWA members vote down pay deferment	Jun 35
Canadian companies bullish about 1985	Jul 31	James River offer rejected by electrical workers	May 33
R&D spending soars, but industry lags behind	Oct 35	Keyes Fiber hit by walkout	Sep 31
U.S. industry spending to rise 13.6%	Feb 39	Keyes Fiber mill continues strike	Oct 25
U.S. spending boost still on for 1985	Jul 31	Labor conflicts heat up in wood product mills	May 33
U.S. spending plans trimmed	Jun 33	Labor contracts unsettled at year's end	Jan 37
U.S. spending plans raised by 2%	Nov 27	L-P contract settled at Antioch mill	Oct 25
U.S. spending to increase in 1985	Jan 31	L-P's Ketchikan labor contract offer deadline expires Madison workers sign five-year contract at Maine mill	Mar 35 Jun 35
CONVERTED PRODUCTS		PCA's Counce, Tenn., given strike notice	Dec 31
Ampad buys stake in Chicago Stock Tab	Oct 31	Port Alfred strike ends after four months	Jan 35
Ampad to buy James River's Campbell Div.	Aug 37	Potlatch stops talks at Ransom, Pa.	Dec 33
Austill Packaging Co. is formed	Dec 33	Owens-Illinois says contract will permit mill upgrade	Sep 31
Brown paper bag has many uses	Sep 35	PRIRB applies for deaccreditation	Jan 35
CCA upgrades its Carton Div.	Dec 33	PRIRB chairman urges cooperation	Dec 31
Cascades to sell Sacs de Papier	Dec 33	PRIRB deaccredited by British Columbia labor board	May 31
Central Texas Corrugated to build box plant in Waco	Apr 27	Scott's Skownegan mill settles	Dec 31
Clevepak sold to Andlinger in \$117-million buyout Colgate purchases P&G's Boundary line	Sep 35 May 35	Simpson ends mill lockout with five-year pact	Oct 27
Conwed wins support with higher takeover bid	Apr 39	Simpson workers ratify seven-year contract Simpson's Fairhaven pulp mill shut down	Oct 25 Jul 39
CZ is licensee for Schiffenhaus' PREflex	Dec 33	Simpson's strike ends; West Linn's continues	Apr 33

Aug 35

Flexo printing could take fifth of newsprint market

Southwest Forest Products settles with Panama City

Apr 33

May 31

Union makes major concession in new contract	Sep 33	Wastepaper prices plunge as pulp market slides	May 31
Unions, employers to discuss bargaining structure	Jun 37	Wastepaper slide slows; turnaround expected	Jan 39
UPIU, OCAW boards approve union merger	Apr 33	World paper/board capacity to grow slowly to 1989	Oct 37
West Coast mills still shut by disputes	Aug 31		
Weyco freezes salaries of 9,000 employees	Aug 31	NEW TECHNOLOGY	
		Cellulose grown in labs, not forests	Oct 27
LITIGATION		Copy-proof paper makes illegal copying difficult	Aug 33
Beloit wins Valmet appeal, sues Voith, Chesapeake	Mar 35	New digesting process cuts emissions, costs	Jun 39
Kruco, Kruger in court over dividends, earnings	Feb 39	New era in newsprint: four-color printing	lan 33
P&G sues K-C for patent infringement of its diapers	Sep 37	Paprican seeks new technological concepts	lun 39
Valmet gets favorable ruling on patent dispute	Aug 31		,
		SALES/EARNINGS/FINANCE	
MARKETS/PRICES		Beloit studies restructuring, sale, management buyout	Nov 21
Canadian domestic paper demand to grow	Sep 37	Blandin stock sale off	Nov 29
Coated free-sheet hike meets no resistance	Jan 39	Canadian first-quarter earnings increase 535%	Jul 33
Directory market changes with AT&T breakup	Apr 37	Canadian industry profits up; margins still low in West	Apr 31
Eroding pulp prices pull down waste grades	Apr 35	Canadian sales up, profits down	Oct 27
Greenfield pulp mills: not many seen for the 1980s	Jul 37	Dollar blamed for ratings slide of U.S. companies	Nov 27
LWC mills announce January price increases	lan 39	First quarter for U.S. flat due to discounting	Jun 27
Newsprint consumption slows	Jan 39	IP, Weyco take fourth-quarter charges	Feb 33
Newsprint outlook for '86 gloomy	Dec 35	Tax plans unfair says IP president	Oct 33
Oversupply, strong dollar prolong slump	Feb 23	Third-quarter profits plunge 43.7%	Dec 29
Price-fixing charge appealed	Jun 35	U.S. paper industry profits skid 19%	Sep 21
Pulp markets may be stabilized by downtime	May 29	particular property of the control o	
Supercalendered price upped by Madison	Jan 39	TRANSPORTATION	
U.S. paper, board output up by 5.6%	Mar 41	Norfolk's Conrail bid wins Dole's approval	Apr 41
U.S. pulp suppliers to remove 2 million tons by '92	Jul 37	Tenn-Tom waterway now being used by paper mills	Jul 39

MAJOR PAPER MILL LIQUIDATION SALE

OCEAN FALLS CORPORATION • BRITISH COLUMBIA • CANADA

WE HAVE BEEN INSTRUCTED BY OCEAN FALLS CORPORATION, TO SELL ALL THEIR MACHINERY & EQUIPMENT AS PART OF PLANS TO NORMALIZE THE MILL COMPLEX & TOWNSITE.

\$24 MILLION SPENT IN UPGRADING PRIOR TO SHUTDOWN

PAPER MACHINES — 2 BAGLEY & SEWALL, 196" TRIM 1600 F.P.M. STD. RIGHT & LEFT HAND FOURD. - 1 - C/W NEW HEADBOX & VENTILATION SYSTEM (COST \$637,000) '80 SECOND GROOVED PRESS (NEVER INSTALLED COST \$750,000) TOTAL CAPITAL EXP. IN 4 YRS PRIOR TO SHUTDOWN \$5,901,000.

GROUNDWOOD — 7 - KOEHRING WATEROUS GRINDERS 6 - P/W 3-6000 HP TURBINES 1 - MOTORIZED • WOODMILL (LATE MODEL) 2 LINE MILL C/W 3 -DEBARKERS TO 60" • STEAM PLANT 3 - BOILERS TOTAL HEATING SURFACE 45,000 SQ. FT. • 4 - STEAM GEN. 14,000 K.W. TOTAL • NUMEROUS TRANSFORMERS & SUBSTATIONS PLUS APPROX. \$800,000 IN NEW SWITCHGEAR & TEC CABLE • TUG & BOOM BOATS • ROLLING STOCK • AUTOMOTIVE, WOODWORKING, MAINT., & MACHINE SHOPS • STORES INVENTORY OF OVER \$1,000,000 • ROLL GRDR & BALANCER • "NEW" PUMPER FIRE TRUCK • "NEW" CARTHAGE 140" 8 KNIFE CHIPPER (COST \$330,000) • OVER 500 ELECTRIC MOTORS TO 2500 HP • NUMEROUS PUMPS • COMPRESSORS • INSTRUMENTATION • BELTING • CONVEYOR • REDUCERS • PLUS MUCH MORE

HUGE INVENTORY OF EQUIPMENT & PARTS DETAILED PICTORIAL BROCHURE ON REQUEST

EVERYTHING MUST BE SOLD - NO REASONABLE OFFER WILL BE REFUSED OUR FAX NO. IS VANC. (604) 684-4235 OCEAN FALLS (604) 289-3833

Maynards industries

VANCOUVER, B.C. V6E 3J6 (604) 685-7378 1233 WEST GEORGIA ST.

SALE SITE PHONE 604-289-3355

On Reader Service Card Circle 160